

adhering the socket to the board compressing the plurality of terminals against complementary electrical contacts on the board, [the terminals] each terminal comprising a coil and a conductive polymer extending completely through the via, the terminals adapted to exert a return force when compressed.

11.(Amended) A method of mounting a package to a board using a socket having elastically compressible conductive terminals, [the terminals] each terminal comprising a coil and a conductive polymer, extending completely through and filling the via, the terminals adapted to exert a return force when compressed, the method comprising:

applying a first adhesive layer to a first package side of the socket;
leveling the first adhesive layer to make the adhesive layer substantially coplanar with the terminals;

adhering the package to the first adhesive layer compressing the terminals against complementary electrical contacts on the board, the terminals exerting a return force;

applying a second adhesive layer to a second board side of the socket;
leveling the second adhesive layer to make the second adhesive layer substantially coplanar with the terminals; and

adhering the board to the second adhesive layer compressing the terminals against complementary electrical contacts on the board, the terminals exerting a return force.

12.(Amended) A circuit interconnect, comprising:

a circuit board carrier having a plurality of through holes having straight sides and a constant width formed therein; and

a plurality of elastically compressible solderless conductive terminals with lands at each end, each terminal disposed in one of the through holes, wherein the terminals are adapted to be elastically compressible and exert a return force when compressed, each terminal comprising a coil having the constant width and a conductive

polymer extending completely through and filling the via.

18.(Amended) A circuit package, comprising:

a substrate having a plurality of conductive terminals therethrough, the terminals comprising a coil and a conductive polymer placed around the coil, the terminals adapted to be elastically compressible and to exert a return force when compressed;
a first adhesive layer affixed to a first side of the substrate; and
a package affixed to the first adhesive layer.

20.(Amended) An integrated circuit, comprising:

a substrate having a plurality of vias therein; and
a plurality of elastically compressible terminals, the terminals each positioned in one of the vias comprising a coil and a conductive polymer placed around the coil and filling the one via, the terminals adapted to exert a force when compressed[, each terminal positioned in a via].

21.(Amended) A circuit assembly, comprising:

a substrate having a built-in socket, the socket having a plurality of vias of constant width therethrough[therein];
a plurality of elastically compressible conductive terminals,[the terminals] each terminal positioned in one of the vias and comprising a coil and a conductive polymer both extending entirely through the one via, the terminals adapted to exert a return force when compressed[, each terminal disposed within a via];
a circuit board having a plurality of mounting areas, the mounting areas disposed in a plurality of interconnected planes which are substantially non-planar with each other,
wherein each terminal is individually compressible to contact its respective mounting area at the plane of the mounting area.

22.(Amended) A circuit assembly, comprising:

a microprocessor;

a substrate having a built-in socket having a plurality of vias of constant width therethrough[therein], and a plurality of conductive elastically compressible terminals[, the terminals are] adapted to exert a return force when compressed,[the terminals] each terminal positioned in one of the vias and comprising a coil and a conductive polymer, at least a portion of each terminal disposed within a via; and

a motherboard having a plurality of mounting areas thereon, wherein each terminal is compressed to contact a mounting area.

25.(New) A mounting socket, comprising:

a socket body having a first side and a second opposite side, the body having a plurality of vias extending therethroughat a constant width; and {**SUPPORT: F1-4**} a plurality of conductive terminals within the vias, wherein the terminals are adapted to be elastically compressible and exert a return force when compressed, the terminals comprising a coil extending entirely through the via and a conductive polymer.

26. (New) The mounting socket of claim 25, wherein the conductive polymer is injected within the vias.

27. (New) The mounting socket of claim 25, and further comprising:
a first adhesive layer affixed to the first side of the body.

28. (New) The mounting socket of claim 27, and further comprising:
a polymer tape applied to the first adhesive layer;
a ground and power line circuit laid on the polymer tape; and
a second adhesive layer applied on and protecting the ground and power line circuit.